

Ian Michael Gomez  
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## Education

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### Stevens Institute of Technology

B.S., Computer Science

M.S., Machine Learning

**Honors:** Edward A. Stevens Scholarship, Dean's List

**Courses:** Algorithms, Data Structures, Machine Learning, Natural Language Processing, Information Retrieval and NLP

Sept. '17 - December '21

**GPA:** 3.92

**GPA:** 4.0

## Experience

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### Full Stack Software Developer Intern - IBM

Jun '19 - Aug '19

*Ant, Gradle, Python, Java*

- Add resilience features which reduce build pipeline failures by 4%
- Aid in open sourcing 20 packages of Open Liberty
- Add automation tools by writing Python/Gradle scripts to reduce developer conversion time by 17%

### Course Assistant - Stevens Institute of Technology

Jan '19 - Dec '20

*Scheme, C++, C, OCaml, Python*

- Assisted for Discrete Structures/Algorithms/Systems Programming
- Provide aid in grading over 100 students' assignments
- Hold office hours where I help students with both theoretical and programming problems
- Run lab sections where I teach problem solving methods and programming concepts
- Build test scripts to help validate student homework solutions

## Programming Projects

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### DABNet (Personal Project)

Jun '19 - Jan '20

*PyTorch, OpenCV, Python, NumPy*

- Created a reinforcement learning algorithm to learn how to play Dota Underlords
- Use **OpenCV** for image processing and **PyTorch** to build convolutional neural networks for image classification and object detection
- Able to have a 5 round win streak against random human players in a lobby

### Cryptocurrency Predictor (Personal Project)

Feb '18 - Jun '18

*BeautifulSoup4, Tensorflow, Python*

- Create a machine learning pipeline to predict cryptocurrency prices using information on coinmarketcap
- Create a neural network which has a .002 mean square cross validation error on the Loki cryptocurrency

### We Are The Last Words (Personal Project)

Feb '18 - Jun '18

*Django, Python, SQLite3, HTML, CSS, JavaScript, Bootstrap*

- Develop the back end and front end of an active blogging web application that has an average monthly view count of 12,000

## Programming Skills

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**Experienced With:** Python, Linux, HTML, CSS, JavaScript, C **Familiar with** C++, Java, SQL

**Machine Learning:** NumPy, PyTorch, Tensorflow, Keras, SciKit-Learn, Matplotlib

**Full Stack Web Development:** Flask, Django, React, Express

**DevOps Technologies:** Docker, Gradle

**Database Technologies:** PostgreSQL, MongoDB, SQLite3

## Recognition

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**Won Best Usage of Twilio API at HackTCNJ 2018** - For the project Panic Button

**President** of the Stevens Chapter of International Computer and Information Honor Society (UPE)